

M98 Filter Set

Applications: M98 Filter Set cartridges used in numerous collective Protection applications including shipboard, fixed site, and mobile.

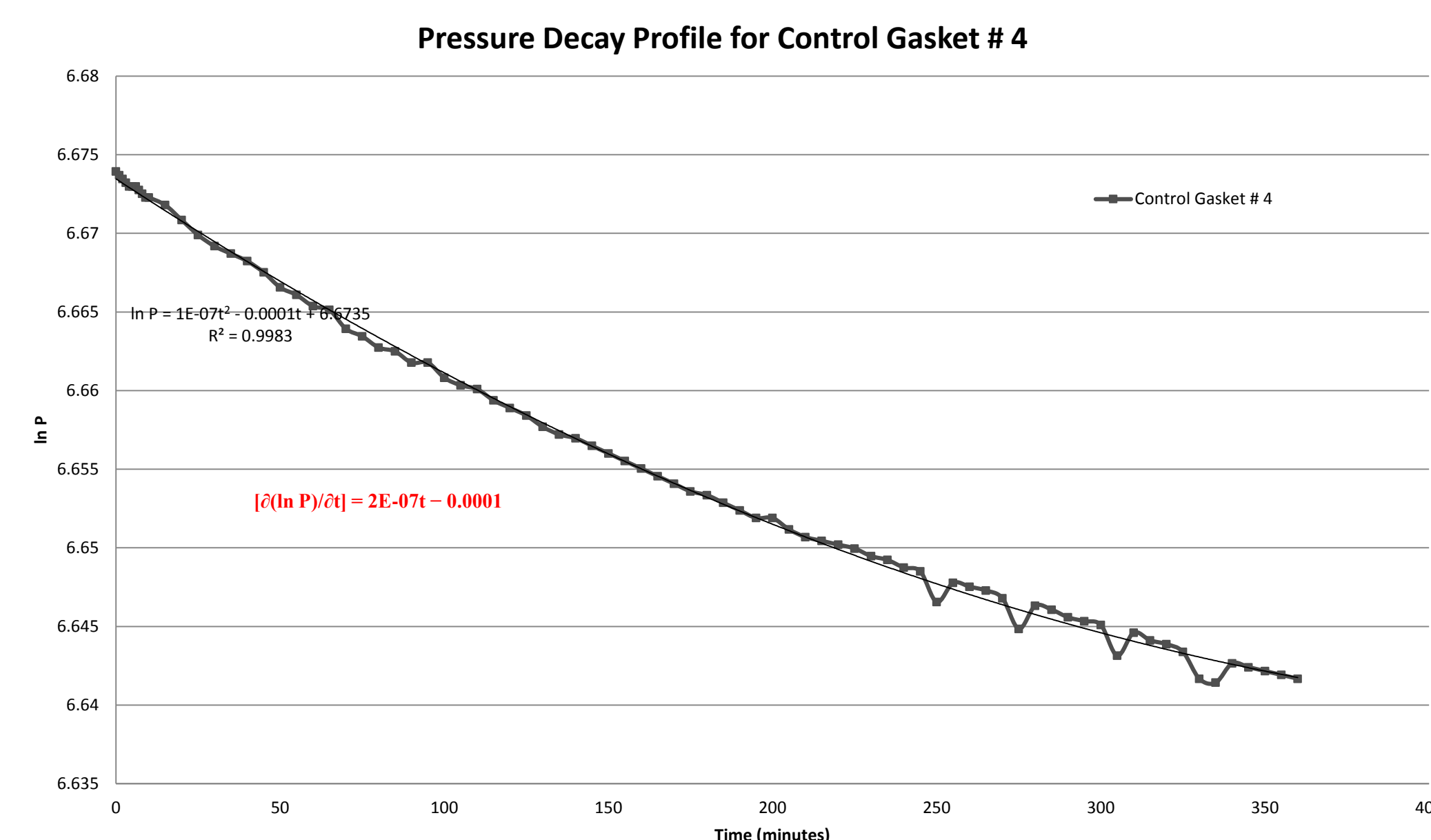
Technical Support: Provide support on technical aspects of filter with emphasis on gas life performance characteristics. Other recent areas of concern related to gasket compression, gasket sealing, and dimensional aspects of the gasket(s). Support production of the M98 filter set.



Gasket Leakage Quantification

Issue: Characterization of low level leakage due to mechanical bypass leakage about filter gaskets.

Technical Support: Assumed technical lead on quantification of leakage capabilities of gaskets.



Approved for Public Release

Systems Sustainment Technical Support (SSTS) (Legacy Equipment)

Issue: Sustainment support for production of legacy based MCPE equipment. These modular components were designed decades ago and there are parts obsolescence issues.

Technical Support: Active member of the collective protection integrated product team. Support to production of legacy electrical modules. Compartment Control Module depicted below.



Production Acceptance of Power Distribution Unit (PDU) and 400 Hz Transformer Rectifier Module

Technical Support: Assumed technical lead on contractor inquiries relating to electrical efficiency, functionality of the PDU, failure rate estimation approaches, etc.



Equipment Modernization

Issue: Modernization of electronic modules to address current performance criteria and to address parts obsolescence issues. Consideration given to very low historic demand for many of these modules. Ability to meet more current electromagnetic interference issues is a concern.

Technical Support: Assumed technical lead on modernization of the M59 and M93 Gas Particulate Filter Units. Interacted with ECBC technical counterparts located in Rock Island. Variable frequency drive module depicted below.



M93 Gas Particulate Filter Unit (GPFU)

Issue: Producibility of the main fan module of the M93 GPFU. Two contractors contributed to both the modernization and testing of the 5-19-9431 main fan assembly.

Technical Support: Provided technical support to ECBC counterparts located at Rock Island. M93 GPFU illustrated below



M93 Gas-Particulate Filter Unit